

NOTES & NEWS

Soviet Contributions to Malacology in 1972

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THE MOLLUSCAN LITERATURE of the Soviet Union and its Eastern satellites constitutes a body of research frequently overlooked but immediately germane to many Western investigators. With a significant commitment to the study of the marine environment, the Russians have a number of publications which deal with aspects of biological oceanography. Noteworthy are those in which malacological contributions occur with some frequency: *Izvestiia Tikhookeanskogo nauchnogo instituta rybnogo khoziaistva i okeanografii* (Transactions of the Pacific Research Institute of Fisheries and Oceanography) issued from Vladivostok; *Trudy Atlanticheskii naucho-issledovatel'skii institut rybnogo khoziaistva i okeanografii* (Works of the Atlantic Research Institute of Fisheries and Oceanography) published in Kaliningrad, and *Issledovaniia fauny morei* (Investigations on the fauna of the sea) from the Zoological Institute in Leningrad. Special institutes and series deal with the Azov, Black, White, and Caspian Seas, and during 1972 some explorations were carried on in the Red and the Davis sea in Antarctica.

Localized journals, the standard museum serials, and the publications of various societies of natural history deal with the land and freshwater faunas of the USSR.

Most experimental studies which are abstracted deal with the results of research in neurophysiology.

We have reviewed and translated the titles of pertinent Soviet literature abstracted by the Referativnyy Zhurnal during the year 1972. This abstracting service is a publication of the Government Committee of the Soviet Ministry of the USSR for Science and Technology (Gosudarstvennyy komitet sojeta ministrov SSSR po nauke i tekhnike) and the Academy of Science (Akademiya nauk soyuza sovetskikh sotsialisticheskikh respublik) and is issued monthly in Moscow by the All Union Institute for

Scientific and Technological Information (Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii). Section D in Biology considers General Zoology, Invertebrate Zoology and Hydrobiology. The neontological literature on mollusks is listed under Invertebrate Zoology. Previously we have listed abstracts for the years 1968 to 1971 (Boss, 1969, *The Veliger* 12: 226 - 227; Boss & Jacobson, 1971, 1972, 1973, *ibid.*, 13: 199 - 202; 14: 437 - 440; 15: 362 to 366).

Abbreviations and symbols we have used are:

- ES - English Summary
 TAN - Trudy Atlanticheskii naucho-issledovatel'skii institut rybnogo khoziaistva i okeanografii (Works of the Atlantic Research Institute of Fisheries and Oceanography)
 ZEBP - Zhurnal Evolyutsionnoi biokhimii i Fiziologii (Journal of evolutionary biochemistry and physiology)
 ZZ - Zoologicheskii Zhurnal (Zoological Journal)

GENERAL

AL'VOVA-KACHANOVA, A. A.

1972. The growth and duration of life of *Dreissena polymorpha polymorpha* (Pall.). Kompleks. issled. Kaspiysk. morya, Moscow Univ. No. 3: 74 - 82

CHUKHCHIN, V. D.

1971. Species composition and ecology of the gastropod mollusks of the Red Sea. Bentos shelfa Krasnogo morya, Nauk Dumka, Kiev, 204 - 215

IVANOVA, A. P.

1971. Preliminary results of work on the rearing of the mussel (*Mytilus galloprovincialis* Lam.) in Kerch Gulf and other areas of the Black Sea. *Okeanologiya* 11 (5): 889 - 899 (ES)

KHOKHUTKIN, I. M.

1971. Ecological and morphological characteristics of populations of the land mollusk *Bradybaena* (Gastropoda, Bradybaenidae). *Ekologiya* 5: 82 - 88

KRAKATITSA, T. F.

1972. Distribution and resources of the scallop *Pecten ponticus* B. D. & D. (Mollusca, Bivalvia) [in the Black Sea]. *ZZ* 51 (1): 136 - 138 (ES)

KUDINOVA-PASTERNAK, R. K.

1972. The wood-boring mollusks (Bivalvia; Teredinidae) from the Gulf of Tonkin (Viet-Nam). *Probl. biol. povrezhd. i obrastaniy materialov, izdeliy i sooruzh*, Moscow. Nauka, 196 - 197

LUKANINA, V. S., S. F. BEZUGLIY, S. N. IVANOVA, V. V. GOROKHOVA, M. I. KOSTYUKOVA & T. I. KURBATOVA

1970. Emulsified concentration of 5,4 dichlorosalicylanilid - an effective molluscicide. *Khim. sredstva zashch. rast.* Moscow, No. 1: 61 - 65

STADNICHENKO, A. P.

1972. A survey of the fauna and ecology of freshwater gastropods of the western parts of the Ukraine. *Vest. zool.* No. 1: 68 - 72 (ES)

Vovk, A. N.

1972. Method of determining maturing stages in gonads of the squid *Loligo pealei*. ZZ 51 (1): 127 - 132 (ES)

ZEVINA, G. B., T. N. BATALOVA & E. N. NIKITINA

1972. Substantiation of the acclimatization of the Azov-Black Sea mollusk (*Corbulomya maeotica*) in the Caspian Sea. Kompleks. issled. Kaspiysk. morya, Moscow Univ. No. 3: 51 - 56

ZUEV, G. V. & K. N. NESIS

1971. Squids (biology and productivity). Pishchevaya Promyshlennost', Moscow, 360 pp.

MORPHOLOGY

BUBNOVA, N. P.

1971. Measurement-weight characteristics of *Macoma balthica* (L.) in Kandalak Bay of the White Sea. Trudy molodykh uchenykh. Vses. nauch.-issled. inst. morsk. rybn. Khoziaistva i okeanogr. No. 86/6: 67 - 69 (ES)

KLYUCHNIK, T. S. & V. A. ZASYPKINA

1972. Some data on the Argentine squid, *Illex argentinus* Castellanos. TAN No. 42: 190 - 192

MAYOROVA, V. F. & L. P. TROITSKAYA

1972. The thin structures of the neurons of the pedal ganglia of the pulmonates. 23 Soveshchaniye po probl. vyssh. nerv. deyat.-sti. (= Conference on the problems of the higher nerve activity) vol. 2, Gor'kiy: 228 - 229

SADYKHOVA, I. A.

1971. On the determination of the age of the Far Eastern mussel *Crenomytilus grayanus* Dunker. Osnovy biol. produktivnosti okeana, Nauka: 246 - 263 (ES)

SHILEYKO, A. A.

1972. The morphology of the radula of the Helicidae and the taxonomic significance of radular structure. Sbornik trudy. zool. mus. Moscow Univ. 12: 157 - 168

TOLSTIKOVA, N. V. & V. A. ORLOV

1972. An experiment in the study of variability of fresh-water bivalve mollusks with computers. ZZ 51 (7): 969 - 974

SYSTEMATICS AND FAUNISTICS

DAMYANOV, S.

1971. New forms of land mollusks in the fauna of Bulgaria. Izv. Zool. univ. s muzey Bulgar. Akad. Nauk 33: 23 - 28 (Bulgarian with Russian and German summaries)

FILATOVA, Z. A.

1971. On several hauls of bivalve mollusks from the ultra-abysal Kurilo-Kamchatka Trench. Trudy Univ. Okeanol. Akad. Nauk SS SR 92: 46 - 60 (ES)

GVOZDEV, M. A.

1972. Materials for the molluscan fauna of Middle Kuyto Lake. Uchenye zapiski Leningr. gosudarstvennogo pedagog. inst. 392: 72 - 79

KOSOGLAZOV, A. A.

1972. Malacofauna (Gastropoda, Pulmonata) of greenhouses in the southwest of the European part of Russia. ZZ 51 (2): 289 - 290 (ES)

KOVALEVA, A. A.

1972. Changes in the molluscan fauna of the Volga in the region of the city of Saratov after the construction of the Volgograd Reservoir. Trudy kompleks. ekspeditsii Saratova univ. po izuch Volgogr. i Saratov vodokhranilishch, No. 2: 97 - 99

KUDINOVA-PASTERNAK, R. K.

1972. On the presence in the Sea of Okhotsk of the boring mollusks of the genus *Xylophaga*. Probl. biol. povrezhd. i obrastaniy materialov, izdelyi i sooruzh, Moscow. Nauka: 194 - 195

LIKHAREV, I. M. & Z. IZZATULLAEV

1972. On introduced species of slugs in the fauna of Tadzhikistan. Dokl. Akad. Fankhon RSS Tochikistan. Dokl. Akad. Nauk Tadzhikistan SSR 15 (3): 66 - 68

Lus, V. Ya

1971. A new genus and species of a gastropod mollusk (Buccinidae) from the ultra-abysal Kurila-Kamchatka Trench. Trudy Univ. Okeanol. Akad. Nauk SSSR 92: 61 - 72 (ES)

MATVOKIN, P. V.

1972. The land mollusks of the family Bradybaenidae in Central Asia. Sbornik trudy Zool. muzey Moscow Univ. 12: 112 - 144

MINICHEV, Yu. S.

1972. Opisthobranch mollusks of the Davis Sea. Issled. fauny moryei. Zool. Inst. Akad. Nauk SSSR 11 (19): 358 - 382

1972. The origin and phylogenesis of mating in the Opisthobranchia and Pulmonata (Gastropoda). Vestnik Leningr. univ. No. 3: 16 - 26 (ES)

NESIS, K. N.

1971. A new form of the squid, genus *Histioteuthis* from the eastern Pacific. ZZ 50 (10): 1463 - 1471 (ES)

1972. A review of the squid genera *Taonius* and *Belonella* (Oegopsida, Cranchiidae). ZZ 51 (3): 341 - 350 (ES)

NESIS, K. N. & CH. M. NIGMATULLIN

1972. Benthic squids of the Patagonian - Falkland region. TAN No. 42: 170 - 175

OSHANOVA, N.

1972. The slugs (families Arionidae, Limacidae and Milacidae) of the Vitosha mountain massif. Izv. Zool. univ. s muzey. Bulgar. Akad. Nauk 35: 139 - 154 (Bulgarian with Russian and German summaries)

PUR, A. L.

1972. Materials for the study of the Neritidae of the Ukraine. Dopovidi Akad. Nauk Ukranian RSR (B) No. 1: 78 - 83 (ES)

ROGINSKAYA, I. S.

1972. *Calycidoris guentheri* (Gastropoda, Nudibranchia), taxonomy and distribution. ZZ 51 (6): 913 - 918 (ES)

SHILEYKO, A. A.

1971. The taxonomic status of the pulmonate family Helicidae. Nauchnye dokl. vysshei shkoly biol. nauki, No. 12: 7 - 16

1972. Analysis of the basic features of the organization of *Zonitoides nitidus* (Müll.) in connection with the problem of the systematic position of Gastrodantinae (Gastropoda, Stylommatophora). Sbornik trudy Zool. muzey Moscow Univ. 12: 145 - 156

1972. The taxonomic and geographic features of the tribe Hydromini Schileyko (Pulmonata, Helicidae). ZZ 51 (8): 1129 - 1141 (ES)

STAROBOGATOV, YA. I.

1972. New species of gastropods from the springs and underground waters of Central Asia. Trudy Zool. univ. Akad. Nauk SSSR 51: 165 - 172

STAROBOGATOV, YA. I. & R. KH. MAMILOVA

1970. A new species of *Polypylis* from southeastern Kazakhstan. Biol. i geografiya, Alma-Ata, No. 6: 62 - 63

YEGOROVA, E. N.

1972. Biogeographic composition of the gastropod fauna and bivalve mollusks of the Davis Sea and the possible path of their formation. Inform. biol. Sov. antarkt. ekspeditsii, No. 83: 70 - 76

1972. New species of gastropod prosobranchs of the Davis Sea. Issled. fauny moryei. Zool. inst. Akad. Nauk SSSR 11(19): 383 - 394
ZUEV, G. V.

1971. The cephalopod mollusks of the northwestern regions of the Indian Ocean. Nauk Dumka, Kiev, 224 pp.

BIOLOGY AND ECOLOGY

BULGAKOV, G. P.

1971. Materials dealing with the distribution and ecology of the octopus on the Soviet shores of the Sea of Japan. Ekol. mor. organizmov, Moscow Univ.: 14 - 15

FILIPPOVA, YU. A.

1971. On the distribution of pelagic squids in the Pacific Ocean. Osnovy biol. produktivnosti okeana, Nauka: 89 - 101 (ES)

GAL'PERIN, G. E. & A. A. L'VOVA-KACHANOVA

1972. Certain peculiarities of the reproduction of *Dreissena polymorpha polymorpha* (Pall.) and *D. polymorpha andrusovi* (Andr.). Kompleks. issled. Kaspisk. morya, Moscow Univ. No. 3: 61 - 73
KISELEVA, G. A.

1972. The reproduction and development of mussels from 2 ecotopes (rocky and silty substrates) in the Black Sea. Biol. morya, No. 26, Nauk. Dumka, Kiev, 88 - 93

KONDRAT'EV, G. P.

1972. On the sexual structure of a population of the live-bearing *Viviparus viviparus* in the Volga River at Saratov. Vopr. fiziol. i populyats. ekol. Saratov Univ. Saratov, No. 2: 108 - 110

KUDINSKII, O. YU.

1972. Features of the reproduction and gametogenesis of *Testudinalia tessellata* Mosk. (Prosobranchia, Docoglossa) from a coastal Barents Sea Province. Dokl. Akad. Nauk. SSSR 202(5): 1201 - 1203
NESIS, K. N.

1972. Ocean cephalopods of the Peru Current: horizontal and vertical distribution. Okeanologiya 12(3): 506 - 519 (ES)

NIGMATULLIN, CH. M. & A. N. VOVK

1972. On the biology of the ommastrephid squid, *Illex coindetii* Verany on the seacoast of Angola. TAN No. 42: 162 - 166

SHEVTSOV, G. A.

1972. On the feeding of the squid *Ommastrophes bartrami* in the Kurilo-Hokkaido region. Hidrobiol. Zhur. 8(3): 97 - 101

VOVK, A. N. & CH. M. NIGMATULLIN

1972. The behavior of the wing-armed squid *Ommastrophes pteropus* Steenstrup, 1855 in the illuminated zone. TAN No. 42: 196 - 197

YEGOROVA, E. N.

1972. Certain features of the distribution and ecology of the mollusks in the Davis Sea. Inform. biol. Sov. Antarkt. ekspeditsii, No. 84: 75 - 82

ZAKHLYALOV, YA. N.

1971. Problems in the ecology and biology of *Lymnaea auricularia plicatula* (Benson) -- an intermediate host of Turkestan ornithobilharzia in the Far East. Trudy Dal'nevost. nauch. veteran inst. 5(2): 58 - 65

PHYSIOLOGY

ADZHIMOLAEV, T. A., R. A. MURAV'EV & V. V. ROGOVIN

1972. Electron cytochemistry of acid phosphatase in giant nerve cells of the mollusk *Tritonia diomedea*. ZEBP 8(2): 152 - 156 (ES)

ALIMOV, A. F. & V. V. BUL'ON

1972. Filtering activity of the mollusk *Sphaerium suecicum* Clesin under various concentrations of suspended matter. Zhur. obshch. biol. 33(1): 97 - 104 (ES)

ALYAKRINSKAYA, I. O.

1972. Buffer properties of the hemolymph in some mollusks. ZZ 51(2): 189 - 196 (ES)

1972. Myoglobin of the radular muscles of the Littorinidae of the White Sea. ZEBP 8(4): 444 - 445 (ES)

ARAKELOV, G. G. & T. A. TAVZARASHVILI

1971. Biphasic synaptic potentials of pacemaker neurons of *Helix pomatia*. ZEBP 7(6): 590 - 598 (ES)

BERGER, V. YA. & A. D. KHARAZOVA

1971. An investigation of the substantive alterations and synthesis of albumen in the process of adaptation of several White Sea mollusks to a lowering of the environmental salinity. Tsitologiya 13(10): 1299 - 1313 (ES)

BUROVINA, I. V. & A. F. SIDOROV

1971. Distribution of potassium, sodium, calcium and phosphorus in the nerve cells of ganglia of the mollusk *Planorbis corneus* according to data of X-ray spectral microanalysis. ZEBP 7(6): 576 - 579 (ES)

GERASIMOV, V. D.

1972. Intracellular potentials of central nervous system neurons of the monk fish *Clione limacina*. ZEBP 8(1): 52 - 58 (ES)

GOROMOSOVA, S. A.

1971. Phosphorescent activity of the lamellibranch mollusk *Mytilus galloprovincialis* L. Evolutsiya vegetativ. funktsii Leningrad. 6 - 9 (ES)

KORZHUEV, P. A. & I. O. ALYAKRINSKAYA

1970. On the hemocyanin and hemolymph of the freshwater snail *Viviparus viviparus*. Evolutsiya vegetativ. funktsii Leningrad, 101 - 105 (ES)

1972. Biochemical characteristics of the hemolymph of the vineyard snail *Helix pomatia*. Dokl. Akad. Nauk SSSR 205(4): 983 - 985
MAIOROVA, V. F. & L. P. TROITSKAYA

1972. Axosomatic synapses in the pedal ganglia of gastropods (*Lymnaea stagnalis*). Dokl. Akad. Nauk SSSR 204(6): 1471 - 1472

NATOCHIN, YU. V., T. P. GUSEV & E. A. LAVROVA

1972. Investigation of ionic regulation and function of the organ of Bojanus in marine bivalve mollusks. ZEBP 8 (2): 133-141 (ES)

ROZHMANOVA, O. M.

1972. Magnesium-calcium-activated adenosine triphosphatase of plasmatic membranes of neurons of the snail *Helix pomatia*. ZEBP 8 (2): 157-161 (ES)

SKHOLL', E. D.

1971. Correlation of levels of thermostability with alteration of thermal conditions in isolated, ciliated epithelium cells of mussels. Ekologiya No. 6: 69-73

SPIRIDONOV, YU. I.

1972. Investigation of respiration in *Dreissena* by the polygraphic method. Vopr. fiziol. i populyats. ekol. Saratov Univ. Saratov, No. 2: 15-21

Re *Laura* Trinchese, 1872

(Gastropoda : Opisthobranchia)

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IN A RECENT NOTE (KEEN, 1973), I showed that the earliest establishment of the generic name *Laura* in Mollusca is by Trinchese, 1872, rather than Trinchese, 1873 or 1874, as often cited. I was, of course, aware that there is listed in the nomenclators another (apparently later) usage of the name - "*Laura* Lacaze-Duthiers, 1883." I saw no reason to inquire further into the status of the latter. However, an alert correspondent, Gary MacDonald, soon called to my attention the fact that it is the basis for a family-group name, Lauridae, in ascothoracican barnacles, and that it is well embedded in cirriped literature. I then made further investigations, especially after noting that NEWMAN, ZULLO, & WITHERS (1969: R274) cite the date of *Laura* Lacaze-Duthiers as 1866, though they give no bibliographic reference. My intention was to ask the International Commission on Zoological Nomenclature to suppress the molluscan *Laura* (which, after all, has had little currency) in favor of the arthropod *Laura* if the 1866 date of the latter could not be confirmed. It is now evident that a request for suppression is not necessary: the barnacle *Laura* does have priority. It was validated in 1865 in a paper overlooked by compilers of the two principal nomenclators [NEAVE, "Nomenclator Zoologicus ..." and SCHULZE, KÜKENTHAL, & HEIDER, "No-

menclator animalium generum ..."]. Not only was the generic name proposed at that time, but a type species, *Laura gerardiae*, was named and described. [This is a cirriped parasitic on an antipatharian coral, *Gerardia*.]

The result for opisthobranch nomenclature is that *Placida* Trinchese, 1876, again becomes available, and *Laura* Trinchese, 1872, being a homonym, falls into synonymy under *Placida*.

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1865. Mémoire sur un mode nouveau de parasitisme observé sur un animal non décrit. Comptes Rend. Acad. Sci. Paris 61 (20): 838-841 (November or December). [NEWMAN *et al.* (see below) cite the date as 1866, but internal evidence, such as the printing of errata for papers in no. 20 in nos. 22 and 24, suggest rapid publication of reports on the weekly meetings (séances) of the Académie, perhaps a matter of only a few days. The Séance for part no. 20 was held November 20, nearly 6 weeks before the end of the year. The title page of the volume carries the date 1865.]

NEWMAN, WILLIAM A., VICTOR AUGUST ZULLO & T. H. WITHERS

1969. Cirripedia, In: R. C. Moore, ed., Treatise on Invertebrate Paleontology, Arthropoda, vol. R-1: R206-R294

Geographic Displacement as a Non-Range-Extension of *Tegula gallina* (Forbes)

(Gastropoda : Trochidae)

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ON 9 AUGUST 1973, 1410 dead and cleaned shells of the turban snail *Tegula gallina* (Forbes, 1852) were placed in a small area of the exposed rocky mid-intertidal zone, immediately northeast of the University of California Bodega Marine Laboratory, near Horseshoe Cove, Bodega Bay, Sonoma County, California for the purpose of studying aspects of hermit crab biology and ecology. Before